# RAW SEQUENCE LISTING ERROR REPORT
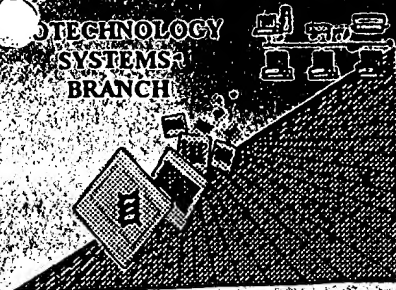
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/895940_

Source: _OIPE_

Date Processed by STIC: _10/19/01_

BEST AVAILABLE COPY

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 09/895 940 |
|---|---|---|

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO**

1 _____ Wrapped Nucleics  
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino  
Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length.

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0  
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences  
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i)    SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences  
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence  
<210> sequence id number  
<400> sequence id number  
000

9 _____ Use of n's or Xaa's  
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>  
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0  
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

OIPE

```
        RAW SEQUENCE LISTING              DATE: 10/19/2001
        PATENT APPLICATION:  US/09/895,940    TIME: 09:56:19

        Input Set : A:\9151-16.st25.txt
        Output Set: N:\CRF3\10192001\I895940.raw

 3  <110> APPLICANT: Orlando, Joseph S.
 4         Ornelles, David A.
 6  <120> TITLE OF INVENTION: Adenovirus E4 Protein Variants for Virus Production
 8  <130> FILE REFERENCE: 9151.16
10  <140> CURRENT APPLICATION NUMBER: US 09/895,940
11  <141> CURRENT FILING DATE: 2001-06-29
13  <160> NUMBER OF SEQ ID NOS: 25
15  <170> SOFTWARE: PatentIn version 3.1
17  <210> SEQ ID NO: 1
18  <211> LENGTH: 29
19  <212> TYPE: DNA
20  <213> ORGANISM: Synthetic oligonucleotide
22  <400> SEQUENCE: 1
23  cgctgctgtg ccgaggagac aaggcgcct
26  <210> SEQ ID NO: 2
27  <211> LENGTH: 35
28  <212> TYPE: DNA
29  <213> ORGANISM: synthetic oligonucleotide
31  <400> SEQUENCE: 2
32  cgccttatgc tggaggcggt ggaaatcatc gctga
35  <210> SEQ ID NO: 3
36  <211> LENGTH: 30
37  <212> TYPE: DNA
38  <213> ORGANISM: Synthetic oligonucleotide
40  <400> SEQUENCE: 3
41  gcccggagga cagaggagct tatgctgcgg
44  <210> SEQ ID NO: 4
45  <211> LENGTH: 27
46  <212> TYPE: DNA
47  <213> ORGANISM: Synthetic oligonucleotide
49  <400> SEQUENCE: 4
50  gcccggagga cagagcgcct tatgctg
53  <210> SEQ ID NO: 5
54  <211> LENGTH: 27
55  <212> TYPE: DNA
56  <213> ORGANISM: Synthetic oligonucleotide
58  <400> SEQUENCE: 5
59  cggaggacaa gggagcttat gctgcgg
62  <210> SEQ ID NO: 6
63  <211> LENGTH: 30
64  <212> TYPE: DNA
65  <213> ORGANISM: Synthetic oligonucleotide
67  <400> SEQUENCE: 6
68  gcaacggcag cgctcatgct agcagcggtg
71  <210> SEQ ID NO: 7
72  <211> LENGTH: 30
73  <212> TYPE: DNA
```

*Does Not Comply*
*Corrected Diskette Needed*

*Errored – a nucleotide is not an organism. Acceptable 213 responses are only "Artificial Sequence", "Unknown" or the name of some specific species.*

*Errored: Invalid 213 35 response*

*Errored: Invalid 213 response*

30

27

27

30

*The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.*

RAW SEQUENCE LISTING                    DATE: 10/19/2001
PATENT APPLICATION:   US/09/895,940     TIME: 09:56:19

Input Set : A:\9151-16.st25.txt
Output Set: N:\CRF3\10192001\I895940.raw

```
 74 <213> ORGANISM: Synthetic oligonucleotide
 76 <400> SEQUENCE: 7
 77 caccgctgct agcatgagcg ctgccgttgc                                    30
 80 <210> SEQ ID NO: 8
 81 <211> LENGTH: 30
 82 <212> TYPE: DNA
 83 <213> ORGANISM: Synthetic oligonucleotide
 85 <400> SEQUENCE: 8
 86 aagaccaaga agcttatgct gaaggcagta                                    30
 89 <210> SEQ ID NO: 9
 90 <211> LENGTH: 30
 91 <212> TYPE: DNA
 92 <213> ORGANISM: Synthetic oligonucleotide
 94 <400> SEQUENCE: 9
 95 tactgccttc agcataagct tcttggtctt                                    30
 98 <210> SEQ ID NO: 10
 99 <211> LENGTH: 30
100 <212> TYPE: DNA
101 <213> ORGANISM: Synthetic oligonucleotide
103 <400> SEQUENCE: 10
104 ggtgcgctgc tgcgcagaga ggacaaggcg                                    30
107 <210> SEQ ID NO: 11
108 <211> LENGTH: 31
109 <212> TYPE: DNA
110 <213> ORGANISM: Synthetic oligonucleotide
112 <400> SEQUENCE: 11
113 gctgctgtgc ccgggagaca aggcgcctta t                                  31
116 <210> SEQ ID NO: 12
117 <211> LENGTH: 29
118 <212> TYPE: DNA
119 <213> ORGANISM: Synthetic oligonucleotide
121 <400> SEQUENCE: 12
122 ggcgccttat gctcgaggcg gtgcgaatc                                     29
125 <210> SEQ ID NO: 13
126 <211> LENGTH: 29
127 <212> TYPE: DNA
128 <213> ORGANISM: Synthetic oligonucleotide
130 <400> SEQUENCE: 13
131 gctgcgggcg gtcgaaatca tcgctgagg                                     29
134 <210> SEQ ID NO: 14
135 <211> LENGTH: 37
136 <212> TYPE: DNA
137 <213> ORGANISM: Synthetic oligonucleotide
139 <400> SEQUENCE: 14
140 ggtgcgctgc tgtgcagctg cgacaaggcg ccttatg                            37
143 <210> SEQ ID NO: 15
144 <211> LENGTH: 30
145 <212> TYPE: DNA
146 <213> ORGANISM: Synthetic oligonucleotide
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RAW SEQUENCE LISTING                           DATE: 10/19/2001
PATENT APPLICATION:   US/09/895,940            TIME: 09:56:19

                Input Set : A:\9151-16.st25.txt
                Output Set: N:\CRF3\10192001\I895940.raw

```
148 <400> SEQUENCE: 15
149 gcccggagga cagctgccct tatgctgcgg                            30
152 <210> SEQ ID NO: 16
153 <211> LENGTH: 41
154 <212> TYPE: DNA
155 <213> ORGANISM: Synthetic oligonucleotide
157 <400> SEQUENCE: 16
158 ggcgccttat gctggcagct gtggcaatca tcgctgagga g                41
161 <210> SEQ ID NO: 17
162 <211> LENGTH: 34
163 <212> TYPE: DNA
164 <213> ORGANISM: Synthetic oligonucleotide
166 <400> SEQUENCE: 17
167 gcgctgctgt gccgcgcgca caaggcgcct tatg                        34
170 <210> SEQ ID NO: 18
171 <211> LENGTH: 34
172 <212> TYPE: DNA
173 <213> ORGANISM: Synthetic oligonucleotide
175 <400> SEQUENCE: 18
176 gctgcgggcg gtcgcgatta tcgctgagga gacc                        34
179 <210> SEQ ID NO: 19
180 <211> LENGTH: 24
181 <212> TYPE: DNA
182 <213> ORGANISM: Synthetic oligonucleotide
184 <400> SEQUENCE: 19
185 cccggaggac agcgcgcctt atgc                                   24
188 <210> SEQ ID NO: 20
189 <211> LENGTH: 24
190 <212> TYPE: DNA
191 <213> ORGANISM: Synthetic oligonucleotide
193 <400> SEQUENCE: 20
194 cgcgcacaag agctcttatg ctgc                                   24
197 <210> SEQ ID NO: 21
198 <211> LENGTH: 28
199 <212> TYPE: DNA
200 <213> ORGANISM: Synthetic oligonucleotide
202 <400> SEQUENCE: 21
203 ccttatgctg gcggccgtcg cgattatc                               28
206 <210> SEQ ID NO: 22
207 <211> LENGTH: 31
208 <212> TYPE: DNA
209 <213> ORGANISM: Synthetic oligonucleotide
211 <400> SEQUENCE: 22
212 ctgctgtgcc cgggcgacaa ggcgccttat g                           31
215 <210> SEQ ID NO: 23
216 <211> LENGTH: 30
217 <212> TYPE: DNA
218 <213> ORGANISM: Synthetic oligonucleotide
220 <400> SEQUENCE: 23
```

Input Set : **A:\9151-16.st25.txt**
Output Set: **N:\CRF3\10192001\I895940.raw**

```
221 ccggaggaca agggcccttta tgctgcgggc                              30
224 <210> SEQ ID NO: 24
225 <211> LENGTH: 33
226 <212> TYPE: DNA
227 <213> ORGANISM: Synthetic oligonucleotide
229 <400> SEQUENCE: 24
230 ggcgccttat gctggcggcc gtgcgaatca tcg                           33
233 <210> SEQ ID NO: 25
234 <211> LENGTH: 29
235 <212> TYPE: DNA
236 <213> ORGANISM: Synthetic oligonucleotide
238 <400> SEQUENCE: 25
239 gagctcttat gctagcggcg gtcgcgatt                                29
```

**VERIFICATION SUMMARY**              DATE: 10/19/2001
PATENT APPLICATION:   US/09/895,940   TIME: 09:56:20

Input Set : **A:\9151-16.st25.txt**
Output Set: **N:\CRF3\10192001\I895940.raw**